AMENDMENT

In the Claims:

Please amend the claims as follows:

1. (Currently Amended) A voltage-controlled tunable filter including:

an input;

an output;

a plurality of resonators serially coupled to each other and to the input and the output;

a plurality of tunable capacitors, each of the tunable capacitors being coupled to one of

the resonators;

said tunable capacitors comprising, a first electrode; a tunable dielectric film

positioned on the first electrode; and a second electrode positioned on a surface of the tunable

dielectric film opposite the first electrode; and

means for coupling non-adjacent ones of the resonators.

2. A voltage-controlled tunable filter according to claim 1, wherein each of the

resonators includes one of:

a microstrip, a stripline, a coaxial line, a dielectric resonator, or a waveguide.

3. A voltage-controlled tunable filter according to claim 1, wherein the means for

coupling non-adjacent ones of the resonators comprises a series connection of an additional tunable

capacitor and a conductor.

4.	1	A voltage-controlled	d tunable	filter	according to	claim 1	, wherein	the	plurality
of resonators are	moun	ated on a substrate.							

5. Canceled

6. (Currently Amended) A voltage-controlled tunable filter according to claim 51, wherein the tunable dielectric film comprises:

barium strontium titanate or a composite of barium strontium titanate.

7. A voltage-controlled tunable filter according to claim 1, wherein each of the tunable capacitors comprises:

a substrate;

a tunable dielectric film positioned on the substrate; and

first and second electrodes positioned on a surface of the tunable dielectric film opposite the substrate, the first and second electrodes being separated to form a gap.

- 8. Canceled
- 9. Canceled
- 10. Canceled

11. Canceled

- 12. (Currently Amended) A voltage-controlled tunable filter according to claim 1, wherein the input includes a first microstrip line having an end capacitively coupled to a first one of the resonators; and wherein the output includes a second microstrip line having an end capacitively coupled to a second one of the resonators.
- 13. A voltage-controlled tunable filter according to claim 1, wherein each of the resonators comprises a microstrip line.
- 14. A voltage-controlled tunable filter according to claim 13, wherein the microstrip lines are positioned parallel to each other on a substrate.
- 15. A voltage-controlled tunable filter according to claim 13, wherein the coupling means comprises:

an additional microstrip line having first and second ends, each capacitively coupled to one of the resonator microstrip lines.

16. A voltage-controlled tunable filter according to claim 15, wherein coupling means further comprises:

an additional tunable capacitor connected in series with the additional microstrip line.

- 17. A voltage-controlled tunable filter according to claim 1, wherein each of the tunable capacitors comprises a tunable dielectric capacitor including a layer of voltage tunable dielectric material.
- 18. (Currently Amended) A voltage-controlled tunable filter according to claim 1, wherein the layer of tunable dielectric film material comprises a material selected from the group of:

Ba_xSr_{1-x}TiO₃, Ba_xCa_{1-x}TiO₃, Pb_xZr_{1-x}TiO₃, Pb_xZr_{1-x}SrTiO₃, KTa_xNb_{1-x}O₃, lead lanthanum zirconium titanate, PbTiO₃, BaCaZrTiO₃, NaNO₃, KNbO₃, LiNbO₃, LiTaO₃, PbNb₂O₆, PbTa₂O₆, KSr(NbO₃) and NaBa₂(NbO₃)₅KH₂PO₄, and compositions thereof.

19. (Currently Amended) A voltage-controlled tunable filter according to claim 18, wherein the layer of tunable dielectric film material further comprises a non-tunable component.